

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

12/29/2011

Lauren Greene  
Assistant District Attorney, Suffolk County

Dear ADA Greene,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Daniel Renczkowski.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Daniel Renczkowski analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

**Annie Khan (Dookhan)**

### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### **Experience:**

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

\*Maintenance and repairs of all analytical instruments.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Notary Public.

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department for the Food and Drug Administration.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### **Additional Training:**

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

### **Association:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Daniel Renczkowski

### Education

Degree: Bachelors of Science in Forensic Chemistry,  
May 2005 from Buffalo State College  
GPA: 3.84, Dean's List, Honor's Recognition  
American Chemical Society Undergraduate Award  
Phi Lambda Upsilon Membership

Related Coursework:	Analytical Chemistry	Physical Chemistry
	Organic Chemistry I and II	Instrumental Chemistry
	Biochemistry	Forensics Laboratory
	Chemistry of Criminalistics	Physical Evidence
	Anatomy	Physiology

### Employment

Massachusetts Department of Public Health Drug Analysis Laboratory

Chemist I (October 2005 – March 2008)

Chemist II (March 2008 – present)

- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff
- Successfully completed GC/MS training program
- Responsible for the identification of substances to determine violation of the Controlled Substances Act of the Massachusetts General Laws
- Responsible for maintenance and repairs of analytical instruments
- Responsible for quality control of analytical instruments and standards

### Related Experience

Niagara County Forensics Laboratory

Forensic Internship, January 2005

- Conducted research on the presumptive testing of saliva
- Conducted research on the identification and detection of lubricants
- Observed all aspects of the laboratory including drug analysis, firearms comparison, trace evidence, arson investigation, toxicology, and serology
- Daily use of FTIR microscope and DuraSamplerII
- Familiarized with GC/MS programs



DRUG RECEIPT

CC #

BOOK #

PAGE #

DESTRUCTION #

District/Unit

Name & Rank of Arresting Officer

ID#

DEFENDANT'S NAME

ADDRESS

CITY

STATE

DORCH

MA

DESCRIPTION OF ITEMS SUBMITTED

GROSS  
QUANTITY

GROSS  
WEIGHT

LAB USE ONLY

ANALYSIS  
NUMBER

CRACK COCAINE

1 LOOSE ROCK

2.46g

CRACK COCAINE

27 P/B'S

6.62g

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID#

Received by

Date

ECU Control #

No. [REDACTED]  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]

Date Analyzed: 3-18-11

Amount:  
No. Cont: 1 Cont: pb  
Date Rec'd: 03/09/2011  
Gross Wt.: 2.46

Subst: SUB

No. Analyzed:  
Net Weight: 0.52  
# Tests: 6 ASD  
• 2 DJR

Prelim: cocaine @

Findings: Cocaine

No. [REDACTED]  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]

Date Analyzed: 3-18-11

Amount:  
No. Cont: 27 Cont: pb  
Date Rec'd: 03/09/2011  
Gross Wt.: 6.62

Subst: SUB

No. Analyzed: 3  
Net Weight: 3.62  
# Tests: 12 ASD  
• 6 DJR

Prelim: cocaine

Findings: Cocaine

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Boston ANALYST DJ2 ✓

No. of samples tested:                      Evidence Wt.                     

## PHYSICAL DESCRIPTION:

off white chunky substance  
in 1 bag

loose

Gross Wt ( ):                     

Gross Wt ( ):                     

Pkg. Wt:                     

Net Wt: 0.5219

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate (⊕) +

Marquis -

Froehde's -

Mecke's -

### Microcrystalline Tests

Gold  
Chloride +

TLTA (⊕) +

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 3-13-11

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR DJR

DATE 3-18-11

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Boston ANALYST ASJ

No. of samples tested:                      Evidence Wt.                     

## PHYSICAL DESCRIPTION:

off white chunky substance  
in 27 pkts

Gross Wt (27): 4.2598

Gross Wt (3): 0.4907

Pkg. Wt:                     

Net Wt:                     

## PRELIMINARY TESTS

### Spot Tests

3 Cobalt Thiocyanate (-)+  
3 Marquis -  
3 Froehde's -  
3 Mecke's -

### Microcrystalline Tests

3 Gold Chloride +  
3 TLTA (-)+

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 3-15-11

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS OPERATOR PSA

DATE 3-18-11

Sample #: [REDACTED]

# samples tested: 3

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.1572	0.0491	0.1081	26			
2	0.2064	0.0192	0.1872	27			
3	0.1285	0.0209	0.1076	28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

Calculations:

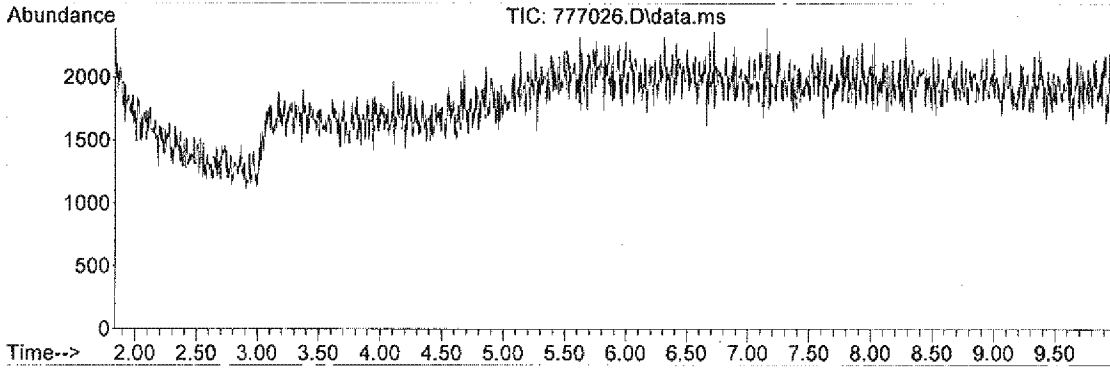
$$\begin{aligned} \text{Est net wt} &= 0.4029 / 3 = 0.1343 (27) \\ &= 3.6261 \end{aligned}$$



## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777026.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 13:53  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

✓ DJR  
12-28-11

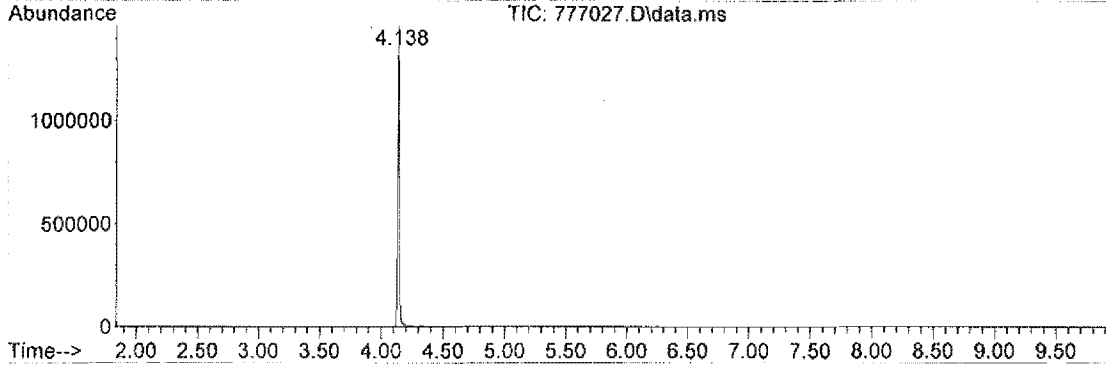


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777027.D  
 Operator : ASD  
 Date Acquired : 17 Mar 2011 14:06  
 Sample Name : COCAINE STD  
 Submitted by : ASD  
 Vial Number : 5  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



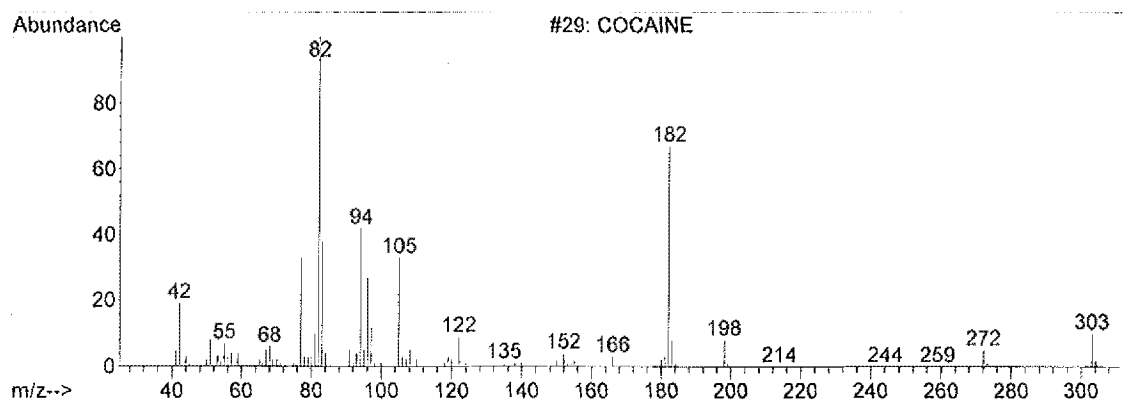
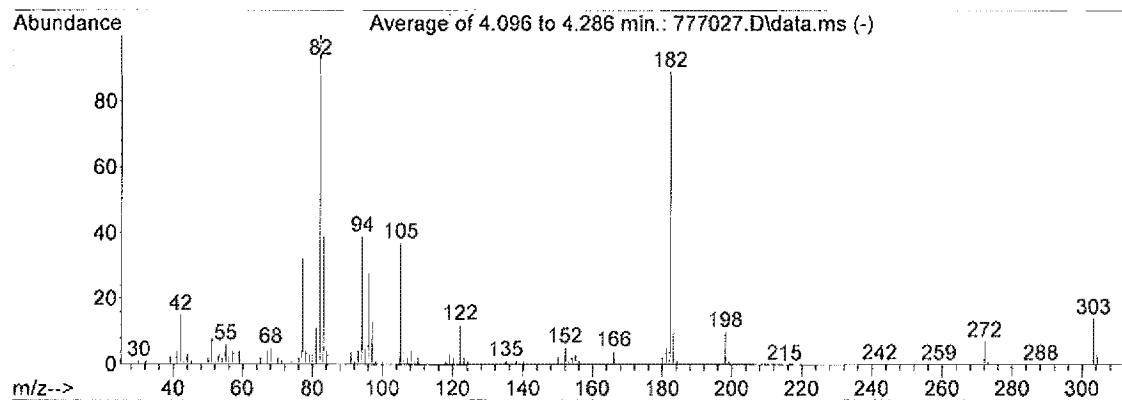
Ret. Time	Area	Area %	Ratio %
4.138	1342652	100.00	100.00

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777027.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 14:06  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 5  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

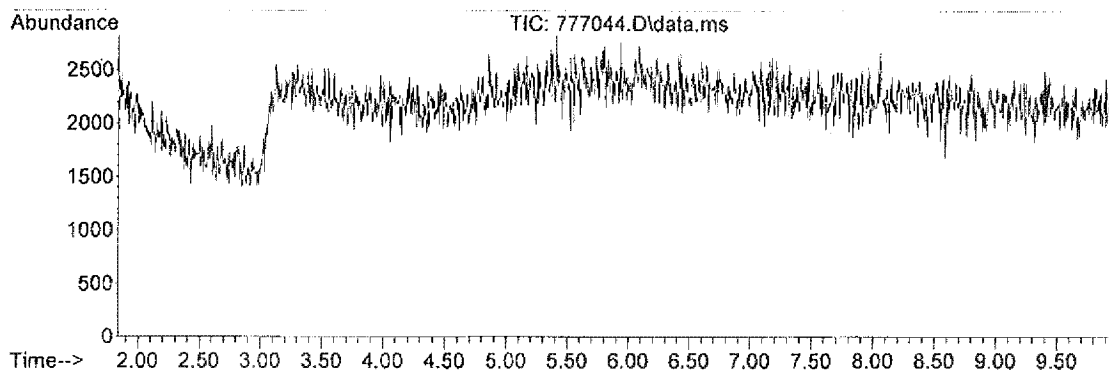
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.14	C:\Database\SLI.L COCAINE	000050-36-2	99



## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777044.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 17:47  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

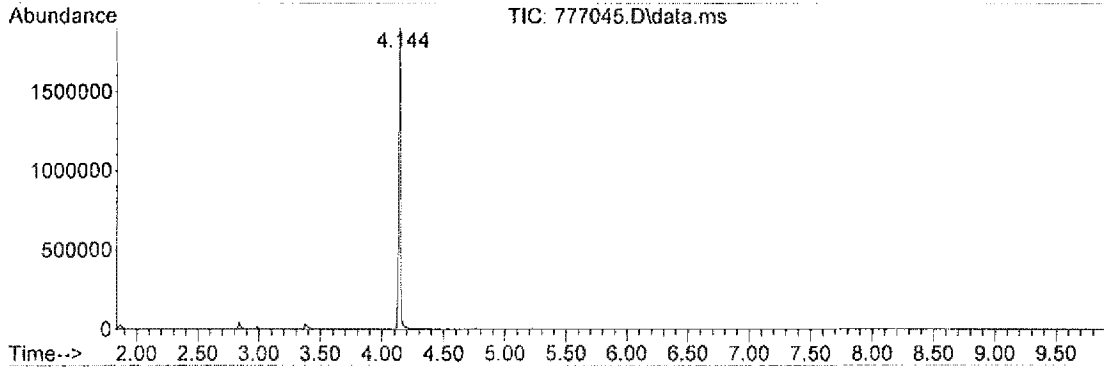


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777045.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 18:00  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 45  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.144	2154758	100.00	100.00

Information from Data File:

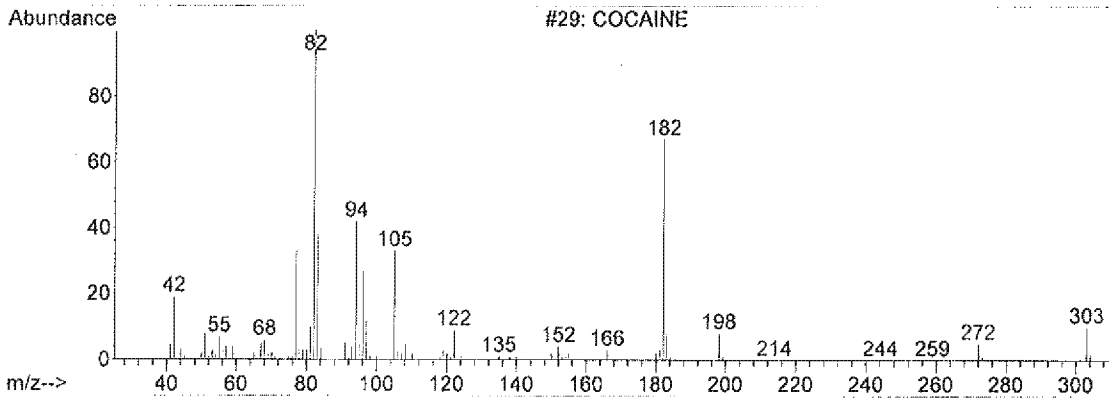
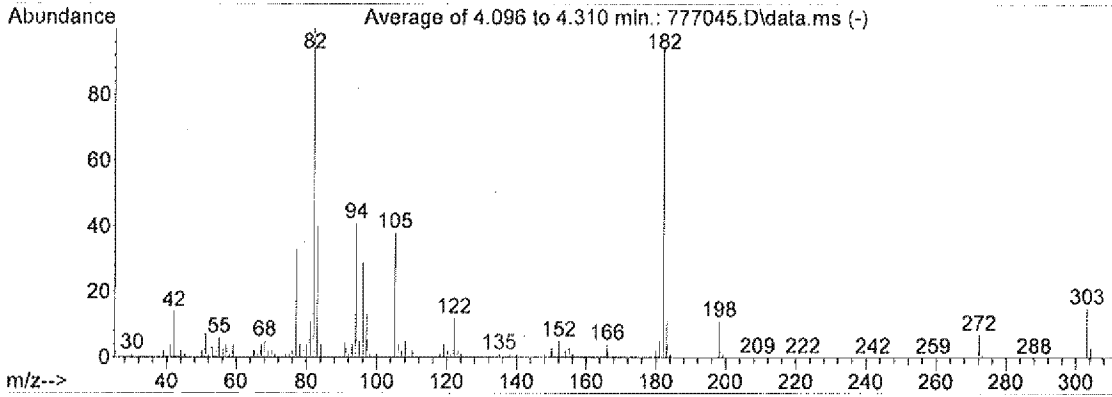
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File Name       : C:\msdchem\1\data\SYSTEM6\03_17_11\777045.D
Operator        : ASD
Date Acquired   : 17 Mar 2011  18:00
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 45
AcquisitionMeth : DRUGS.M
Integrator      : RTE
  
```

```

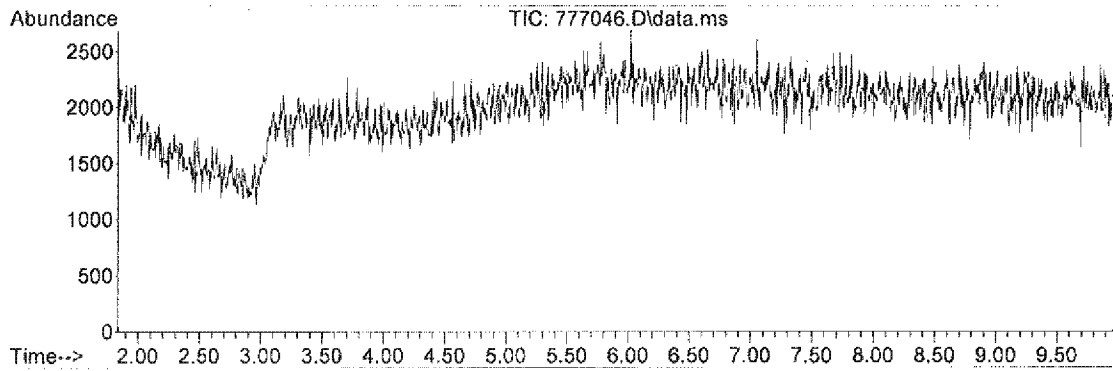
Search Libraries: C:\Database\SLI.L           Minimum Quality: 80
                  C:\Database\NIST08.L        Minimum Quality: 80
                  C:\Database\PMW_TOX2.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.14	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777046.D  
 Operator : ASD  
 Date Acquired : 17 Mar 2011 18:13  
 Sample Name : BLANK  
 Submitted by : ASD  
 Vial Number : 1  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

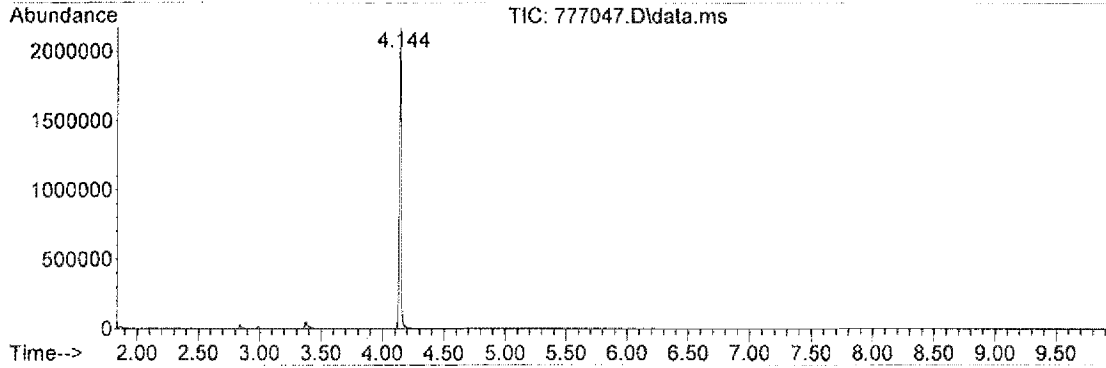


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777047.D  
 Operator : ASD  
 Date Acquired : 17 Mar 2011 18:26  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 47  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.144	2352653	100.00	100.00

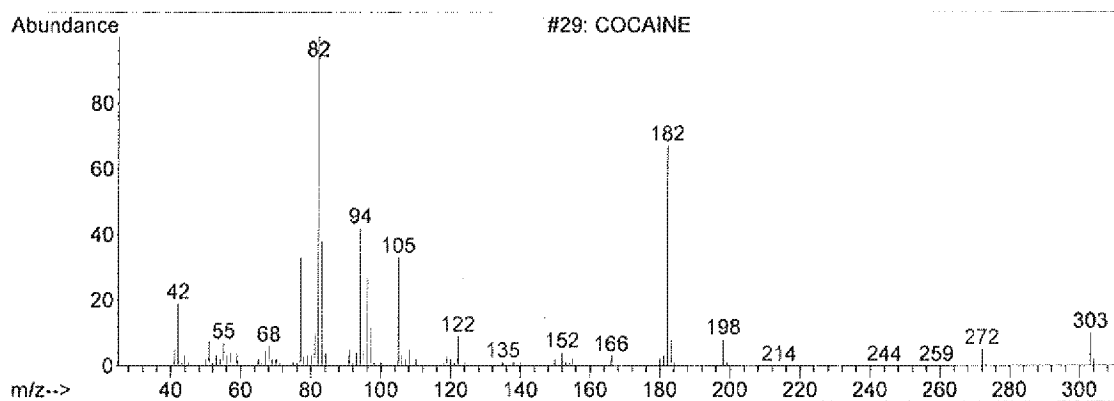
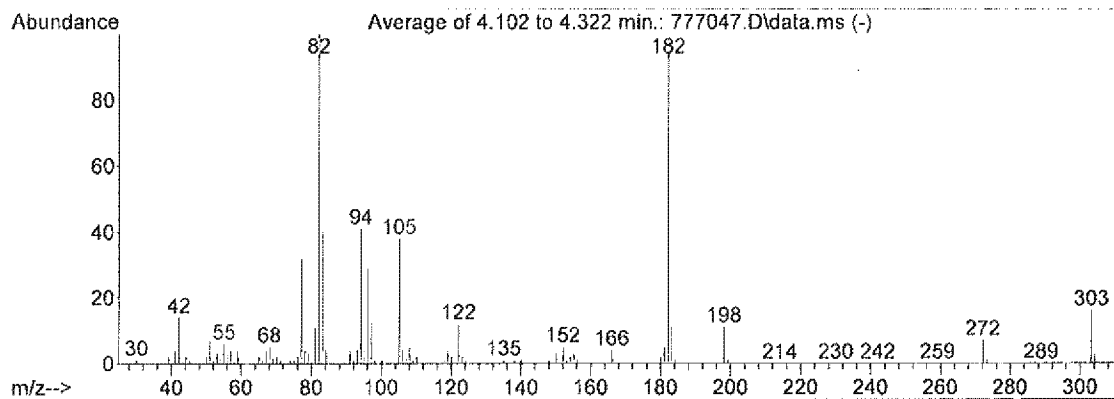


## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777047.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 18:26  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 47  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

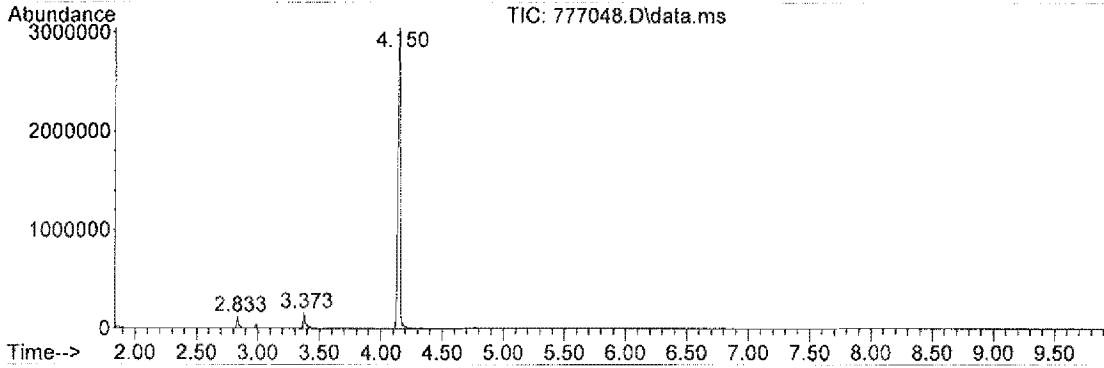
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.14	C:\Database\SLI.L COCAINE	000050-36-2	99



## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777048.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 18:39  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 48  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



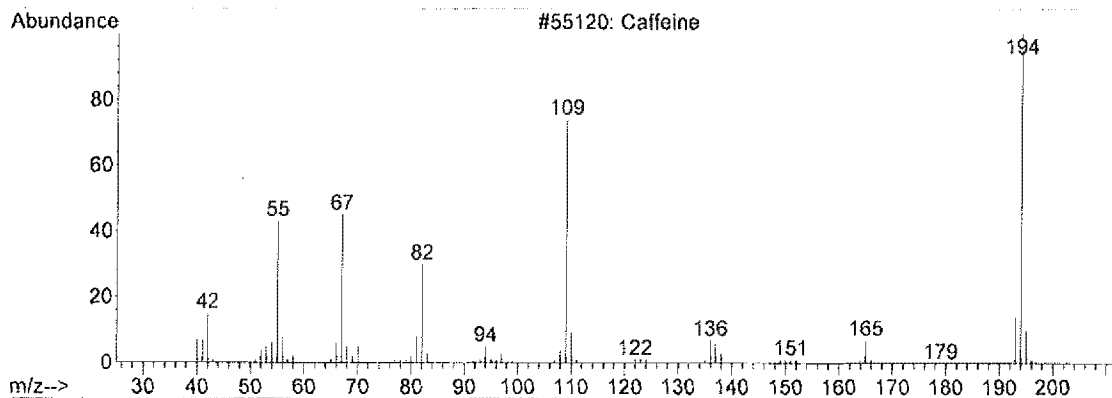
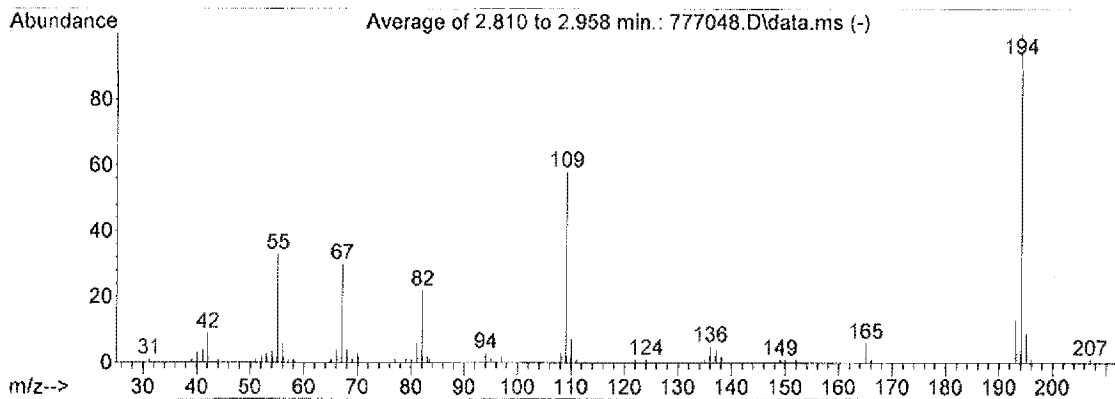
Ret. Time	Area	Area %	Ratio %
2.833	130473	2.94	3.21
3.373	231886	5.23	5.70
4.150	4070696	91.83	100.00

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777048.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 18:39  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 48  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.83	C:\Database\NIST08.L		
		Caffeine	000058-08-2	97
		Caffeine	000058-08-2	96
		Caffeine	000058-08-2	94

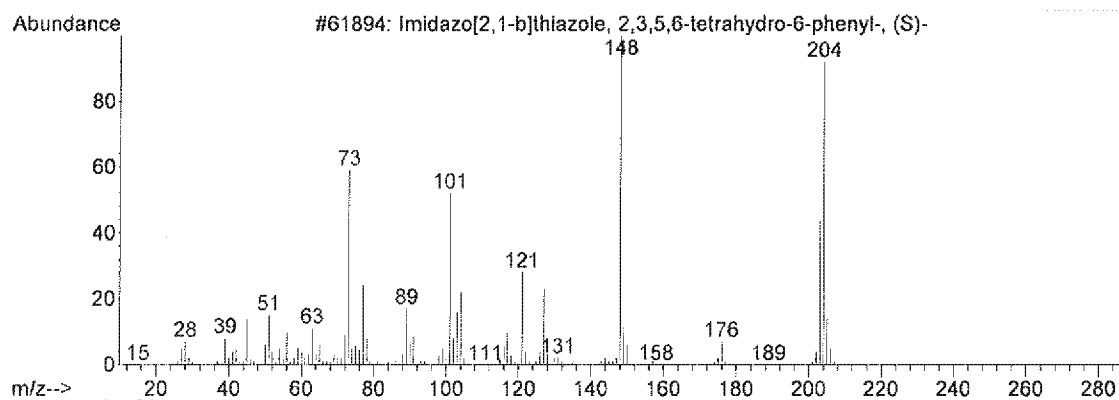
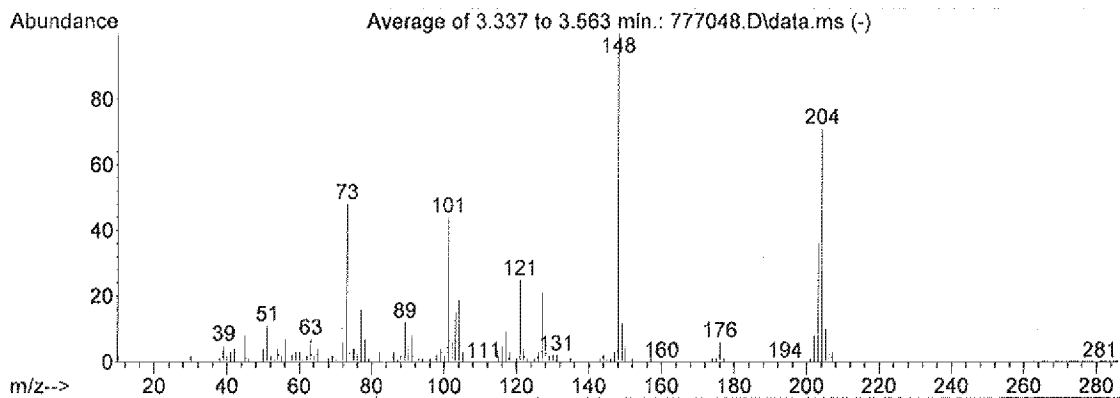


## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777048.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 18:39  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 48  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	3.37	C:\Database\NIST08.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	99
		Levamisole	006649-23-6	99
		Levamisole	006649-23-6	99

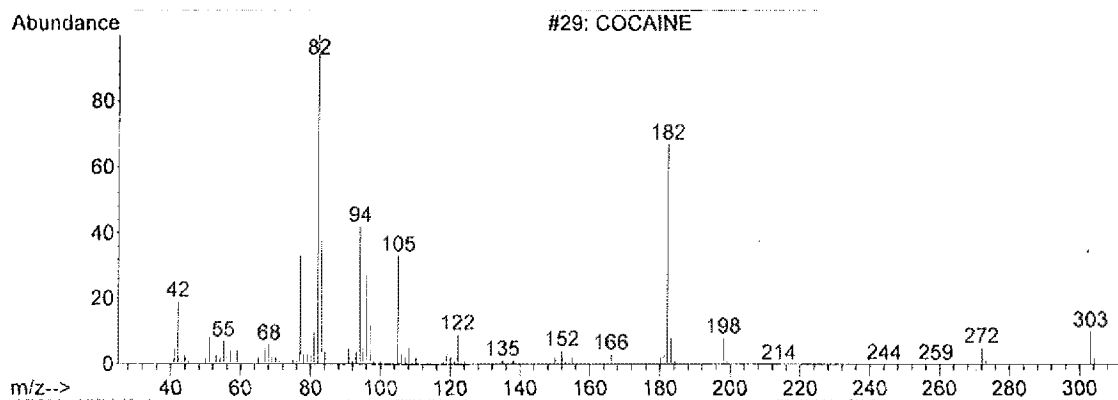
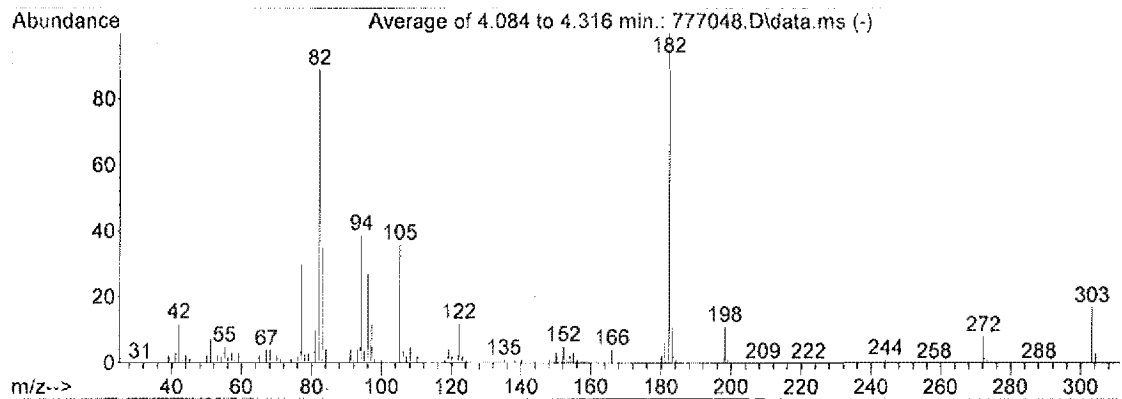


## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777048.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 18:39  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 48  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

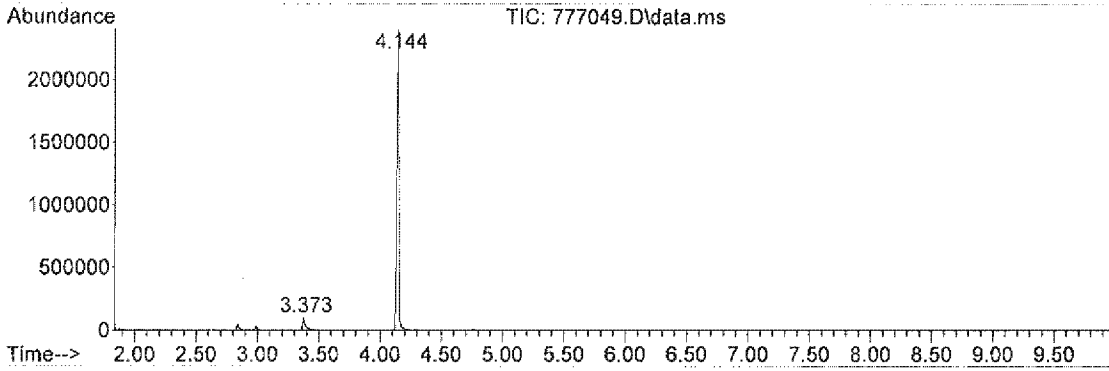
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	4.15	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777049.D  
 Operator : ASD  
 Date Acquired : 17 Mar 2011 18:52  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 49  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



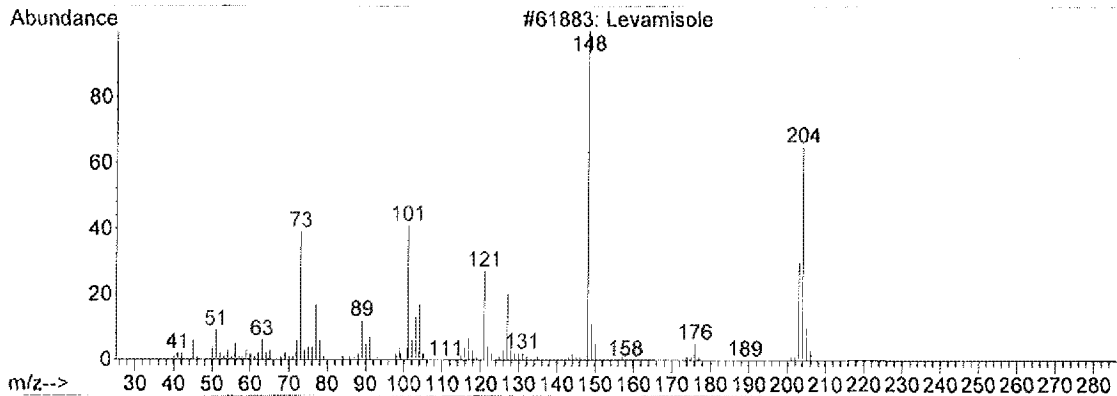
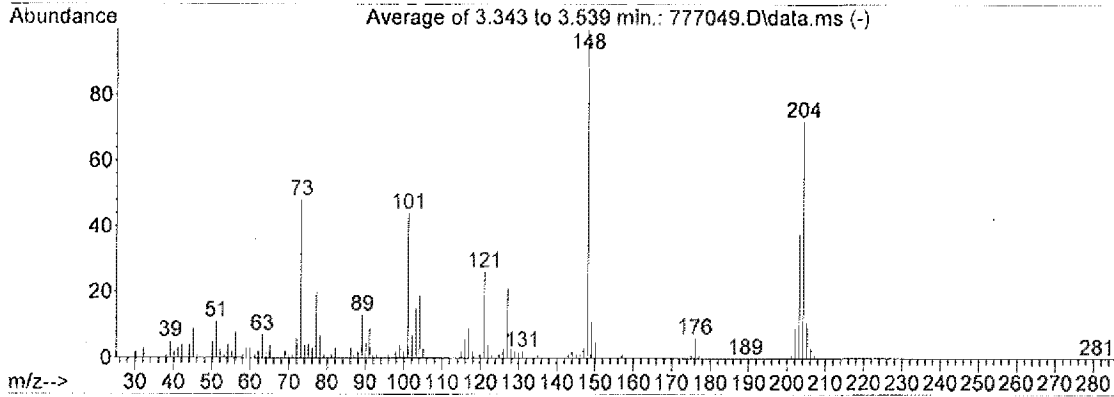
Ret. Time	Area	Area %	Ratio %
3.373	163176	5.83	6.20
4.144	2633347	94.17	100.00

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777049.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 18:52  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 49  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.37	C:\Database\NIST08.L		
		Levamisole	006649-23-6	99
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	99
		Levamisole	006649-23-6	98

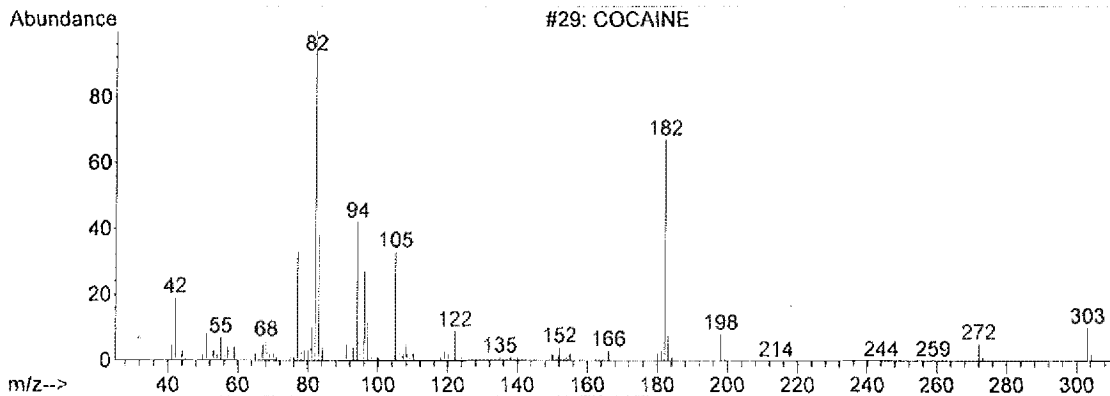
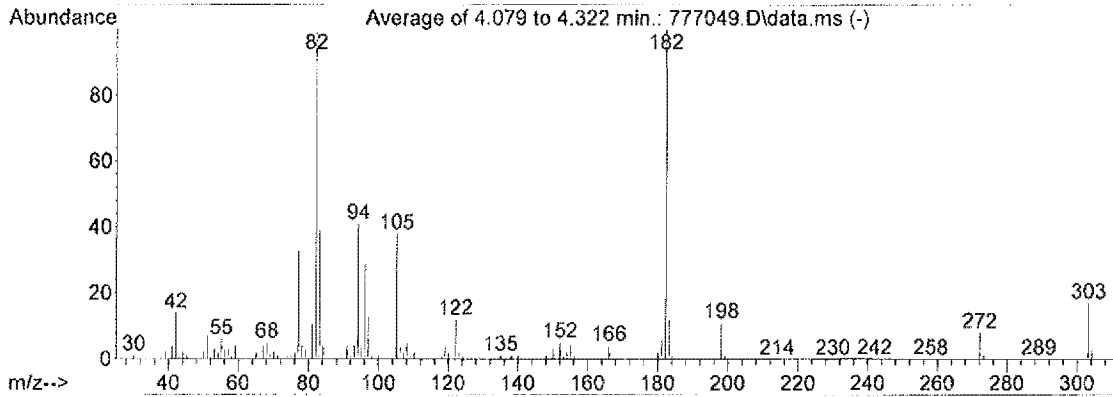


## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777049.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 18:52  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 49  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.14	C:\Database\SLI.L COCAINE	000050-36-2	99





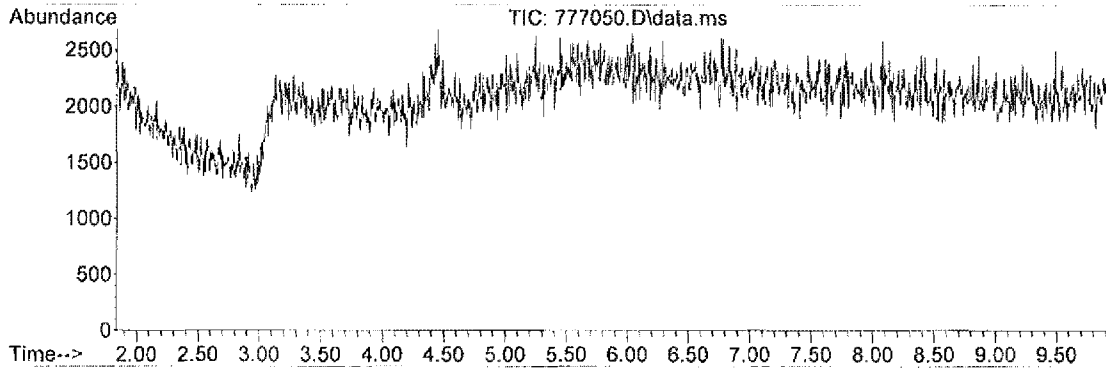
Area Percent / Library Search Report

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Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777050.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 19:05  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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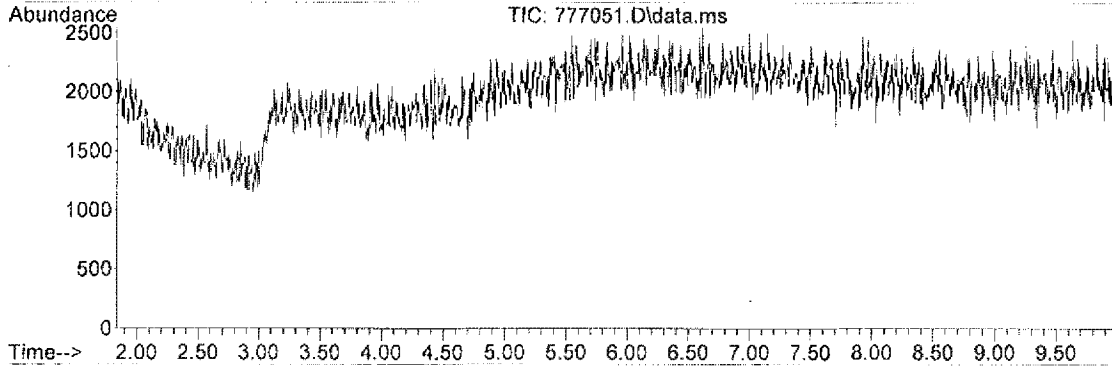
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777051.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 19:18  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

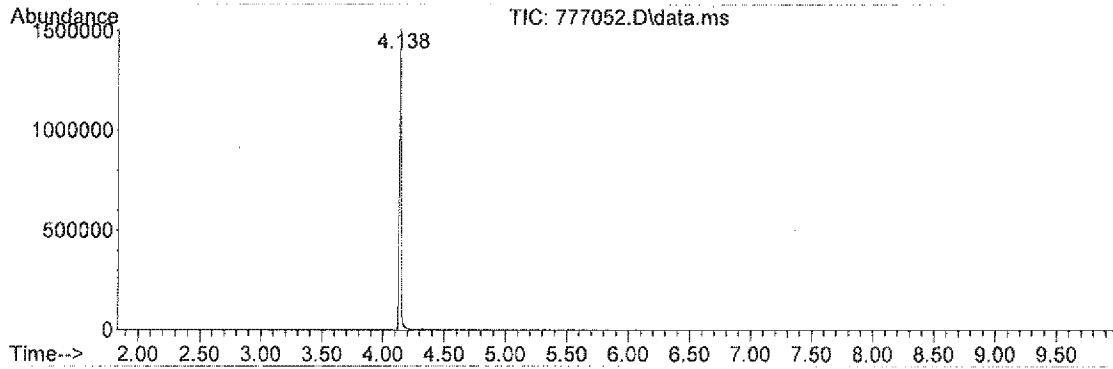


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777052.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 19:31  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 5  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.138	1393129	100.00	100.00

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_17\_11\777052.D  
Operator : ASD  
Date Acquired : 17 Mar 2011 19:31  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 5  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.14	C:\Database\SLI.L COCAINE	000050-36-2	99

